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Sequence Listing was accepted with existing errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).

Reviewer: markspencer

Timestamp: Wed May 02 11:37:17 EDT 2007

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Application No: 10624945

Version No: 2.0

Input Set:

Output Set:

Started: 2007-04-24 07:01:13.338
Finished: 2007-04-24 07:01:15.041
Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 703 ms
Total Warnings: 3
Total Errors: 8
No. of SeqIDs Defined: 12
Actual SeqID Count: 12

ErrCode	Error Description
E 249	Order Sequence Error <140> -> <140>; Expected Mandatory Tag: <210> in Header
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
E 257	Invalid sequence data feature in <221> in SEQ ID (11)
E 257	Invalid sequence data feature in <221> in SEQ ID (11)
E 341	'Xaa' position not defined SEQID (11) POS (4)
E 341	'Xaa' position not defined SEQID (11) POS (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
E 257	Invalid sequence data feature in <221> in SEQ ID (12)
E 341	'Xaa' position not defined SEQID (12) POS (6)
E 250	Structural Validation Error; Sequence listing may not be indexable

SEQUENCE LISTING

<110> YEH, EDWARD T.H.
GONG, LIMIN

<120> COMPOSITION AND METHODS RELATING TO SENP1-A
SENP1-SPECIFIC PROTEASE

<130> UTSH:245USC1

<140> 10/624,945

<140> 2003-07-22

<150> 09/628,966

<151> 2000-07-31

<150> 60/146,774

<151> 1999-07-31

<160> 12

<170> PatentIn Ver. 2.1

<210> 1

<211> 2512

<212> DNA

<213> Human

<400> 1

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<211> 643

<212> PRT

<213> Human

<400> 2

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          20             25             30

```

```

Gly Phe Pro Glu Asp Gln Leu Ser Leu Ser Asp Gln Gln Ile Leu Ser
          35             40             45

```

```

Ser Arg Gln Gly His Leu Asp Arg Ser Phe Thr Cys Ser Thr Arg Ser
          50             55             60

```

```

Ala Ala Tyr Asn Pro Ser Tyr Tyr Ser Asp Asn Pro Ser Ser Asp Ser
          65             70             75             80

```

```

Phe Leu Gly Ser Gly Asp Leu Arg Thr Phe Gly Gln Ser Ala Asn Gly
          85             90             95

```

```

Gln Trp Arg Asn Ser Thr Pro Ser Ser Ser Ser Leu Gln Lys Ser
          100            105            110

```

```

Arg Asn Ser Arg Ser Leu Tyr Leu Glu Thr Arg Lys Thr Ser Ser Gly
          115            120            125

```

```

Leu Ser Asn Ser Phe Ala Gly Lys Ser Asn His His Cys His Val Ser
          130            135            140

```

```

Ala Tyr Glu Lys Ser Phe Pro Ile Lys Pro Val Pro Ser Pro Ser Trp
          145            150            155            160

```

```

Ser Gly Ser Cys Arg Arg Ser Leu Leu Ser Pro Lys Lys Thr Gln Arg
          165            170            175

```

```

Arg His Val Ser Thr Ala Glu Glu Thr Val Gln Glu Glu Glu Arg Glu
          180            185            190

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Cys	Ala	Ser	Gln	Ile	Ile	Gly	Ser	Asp	Thr	Ser	Ser	Ser	Gly	Ser	Ala	245	250	255	
Ser	Ile	Leu	Thr	Asn	Gln	Glu	Gln	Leu	Ser	His	Ser	Val	Tyr	Ser	Leu	260	265	270	
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Leu	Lys	Val	Lys	Asp	Ser	Gln	Thr	Pro	Thr	Pro	Ser	Ser	Thr	Phe	Phe	325	330	335	
Gln	Ala	Glu	Leu	Trp	Ile	Lys	Glu	Leu	Thr	Ser	Val	Tyr	Asp	Ser	Arg	340	345	350	
Ala	Arg	Glu	Arg	Leu	Arg	Gln	Ile	Glu	Glu	Gln	Lys	Ala	Leu	Ala	Leu	355	360	365	
Gln	Leu	Gln	Asn	Gln	Arg	Leu	Gln	Glu	Arg	Glu	His	Ser	Val	His	Asp	370	375	380	
Ser	Val	Glu	Leu	His	Leu	Arg	Val	Pro	Leu	Glu	Lys	Glu	Ile	Pro	Val	385	390	395	400
Thr	Val	Val	Gln	Glu	Thr	Gln	Lys	Lys	Gly	His	Lys	Leu	Thr	Asp	Ser	405	410	415	
Glu	Asp	Glu	Phe	Pro	Glu	Ile	Thr	Glu	Glu	Met	Glu	Lys	Glu	Ile	Lys	420	425	430	
Asn	Val	Phe	Arg	Asn	Gly	Asn	Gln	Asp	Glu	Val	Leu	Ser	Glu	Ala	Phe	435	440	445	
Arg	Leu	Thr	Ile	Thr	Arg	Lys	Asp	Ile	Gln	Thr	Leu	Asn	His	Leu	Asn	450	455	460	
Trp	Leu	Asn	Asp	Glu	Ile	Ile	Asn	Phe	Tyr	Met	Asn	Met	Leu	Met	Glu	465	470	475	480
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Phe Phe Thr Lys Leu Lys Thr Ala Gly Tyr Gln Ala Val Lys Arg Trp
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Thr Lys Lys Val Asp Val Phe Ser Val Asp Ile Leu Leu Val Pro Ile
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His Leu Gly Val His Trp Cys Leu Ala Val Val Asp Phe Arg Lys Lys
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Arg Ile Leu Leu Gln Tyr Leu Lys Gln Glu Ser Ile Asp Lys Lys Arg
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Lys Glu Phe Asp Thr Asn Gly Trp Gln Leu Phe Ser Lys Lys Ser Gln
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Ile Pro Gln Gln Met Asn Gly Ser Asp Cys Gly Met Phe Ala Cys Lys
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Tyr Ala Asp Cys Ile Thr Lys Asp Arg Pro Ile Asn Phe Thr Gln Gln
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His Met Pro Tyr Phe Arg Lys Arg Met Val Trp Glu Ile Leu His Arg
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Lys Leu Leu

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 <211> 9
 <212> PRT
 <213> Influenza virus

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<210> 4
 <211> 7
 <212> PRT
 <213> Artificial Sequence

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<210> 5

<211> 28
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<211> 509

<212> PRT

<213> Human

<400> 8

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```

Glu Val Phe Ser Asn Ser Ser Ser Cys Glu Leu Thr Gly Ser Gly Ser
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```

```

Trp Asn Asn Met Leu Lys Leu Gly Asn Lys Ser Pro Asn Gly Ile Ser
     35             40            45

```

```

Asp Tyr Pro Lys Ile Arg Val Thr Val Thr Arg Asp Gln Pro Arg Arg
     50             55            60

```

```

Val Leu Pro Ser Phe Gly Phe Thr Leu Asn Ser Glu Gly Cys Asn Arg
     65             70            75            80

```

```

Arg Pro Gly Gly Arg Arg His Ser Lys Gly Asn Pro Glu Ser Ser Leu
      85             90            95

```

```

Met Trp Lys Pro Gln Glu Gln Ala Val Thr Glu Met Ile Ser Glu Glu
     100            105            110

```

```

Ser Gly Lys Gly Leu Arg Arg Pro His Cys Thr Val Glu Glu Gly Val
     115            120            125

```

```

Gln Lys Glu Glu Arg Glu Lys Tyr Arg Lys Leu Leu Glu Arg Leu Lys
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```

```

Glu Ser Gly His Gly Asn Ser Val Cys Pro Val Thr Ser Asn Tyr His
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```

```

Ser Ser Gln Arg Ser Gln Met Asp Thr Leu Lys Thr Lys Gly Trp Gly
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```

```

Glu Glu Gln Asn His Gly Val Lys Thr Thr Gln Phe Val Pro Lys Gln
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Tyr	Arg	Leu	Val	Glu	Thr	Arg	Gly	Pro	Leu	Cys	Ser	Leu	Arg	Ser	Glu	195	200	205	
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Gln	Asp	Glu	Ile	Leu	Ser	Ser	Ala	Phe	Lys	Leu	Arg	Ile	Thr	Arg	Gly	305	310	315	320
Asp	Ile	Gln	Thr	Leu	Lys	Asn	Tyr	His	Trp	Leu	Asn	Asp	Glu	Val	Ile	325	330	335	
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Met	Gly	Gln	Lys	Gly	His	Arg	Ile	Cys	Glu	Ile	Leu	Leu	Gln	Tyr	Leu	420	425	430	
Gln	Asp	Glu	Ser	Lys	Thr	Lys	Arg	Asn	Ser	Asp	Leu	Asn	Leu	Leu	Glu	435	440	445	
Trp	Thr	His	His	Ser	Met	Lys	Pro	His	Glu	Ile	Pro	Gln	Gln	Leu	Asn	450	455	460	
Gly	Ser	Asp	Cys	Gly	Met	Phe	Thr	Cys	Lys	Tyr	Ala	Asp	Tyr	Ile	Ser	465	470	475	480
Arg	Asp	Lys	Pro	Ile	Thr	Phe	Thr	Gln	His	Gln	Met	Pro	Leu	Phe	Arg	485	490	495	

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<211> 2206

<212> DNA

<213> Human

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